

2D Bioprocess Assemblies

Quality assembly solutions that provide ultimate customization, quick-turn design, and fast delivery

Bringing the benefits of ultimate customization, fast design, and delivery to fluid handling, Entegris offers customizable 2D bioprocess assemblies with a broad range of capabilities that can be integrated into a variety of single-use process technology. Applying decades of experience and materials expertise, we provide complete solutions for upstream and downstream applications.

Whether you need a small volume (2D), large volume (3D), or manifold configuration, we can customize sterilized assemblies to meet your needs in:

- Storage
- Mixing
- Purification
- Rocking bioreactor platforms
- Process samples
- Manifold configuration
- Chemical resistance
- Inter- and intra-facility transport
- ADC or MAB processing
- Autoclave*

** Autoclave capability applies to the Flex 400 Film only*

2D Bioprocess Assemblies

We offer a range of robust, standard 2D assemblies that can be configured or customized for use in biopharmaceutical applications. Available with face port and end port configurations, our quick-turn 2D assembly solutions can be seamlessly combined with our customized tube set solutions and accessories to meet your specific processing and inlet/outlet connection needs.



Robust assemblies for use in biopharmaceutical applications

Standard Features

- 2D bioprocess assemblies and associated components are sterilized using gamma irradiation between 25 – 40 kGy
- Comprehensive validation guide available
- Extractables and leachables (E&L) data available upon request
- Full traceability for all materials
- Certificates of analysis provided for each lot
- Manufactured under a quality system designed to be compliant to 21 CFR Part 820: Quality System Regulation

APPLICATIONS

- Secure handling and storage of bioprocess liquids
- Chromatography collection
- Formulation and fill
- Easy freeze/thaw solution applications
- Drug substance and excipients
- Solution transfers to bioreactor
- Bioreactor harvest
- Sampling
- Media and buffer prep

FEATURES & BENEFITS

Process driven design and engineering	Allows personalized, timely, and knowledgeable attention throughout the collection, design, and ordering process
Customized system design	Provides design flexibility and allows the system to fit the process rather than the process adapt to the system
Standard design library	Enables quick access to standard products, providing consistently fast development and delivery while minimizing the risk of production delays

SPECIFICATIONS

	2D END PORTED		2D FACE PORTED
Materials of construction	Flex 200		Flex 200, Flex 100/150, or Flex 400
Configurations	3x 1/4" ports	1x 1/2" port, 2x 1/4" ports	1 – 4 ports*
Volumes	50 mL, 250 mL, 500 mL, 1L, 2L	5 L, 10L, 20 L	500 mL, 1 L, 2 L, 5L, 10L, 20L, 50L, +
Tubing sizes (ID)	1/4"	1/2", 1/4"***	1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 1"
Tubing type	TPE standard, silicone available upon request		
Ports	Wide selection of commercially available sterile connectors		
Connectors	1 male MPC, 1 female MPC, 1 Luer for needleless injection		
Handling options	Hanging rods, punched hole, or handles		
Integrations	Filters, pump heads, sensors, etc.		

*Entegris has high capability of design configuration, please talk to your sales representative for additional ports or customizations.

**Reducers can be used to convert 1/4" or 1/2" ports to larger or smaller hose barb sizes.

ORDERING INFORMATION

Part number	Volume	Port options	Tubing length
FSC04568.01	50 mL	3x 1/4" edge ports	12"
FSC04568.02	250 mL	3x 1/4" edge ports	12"
FSC04568.03	500 mL	3x 1/4" edge ports	12"
FSC04568.04	1 L	3x 1/4" edge ports	12"
FSC04568.05	2 L	3x 1/4" edge ports	12"
FSC04569.01	5 L	1x 1/2" port, 2x 1/4" ports	18"
FSC04569.02	10 L	1x 1/2" port, 2x 1/4" ports	18"
FSC04569.03	20 L	1x 1/2" port, 2x 1/4" ports	18"

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the [Contact Us](#) link to find the customer service center nearest you.

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